

**Composite of a Vulcanizable Rubber Composition  
and Cured Rubber Product**

Abstract of the Disclosure:

- 5           In a composite of vulcanizable rubber or rubber-like composition with one or more metal reinforcement elements embedded therein, the metal reinforcement element is coated with a polymer or non-cured rubber composition compatible with and co-polymerizable, co-vulcanizable or crosslinkable with said vulcanizable rubber composition to be reinforced, and additionally bearing
- 10 functional groups either covalently bonding to the metal surface of said reinforcement element or forming covalent bonds with the outward directed first functional groups of a mono- or multimolecular layer of a bifunctional adhesion promoter intercalated between said metal and said coating and bound to said metal by its second functional groups. A cured rubber or rubber-like product, for
- 15 instance a pneumatic tire, is obtained by vulcanization of such a composite.